



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 142006

TO: Terra Gibbs
Location: 2d10 / 2c18
Tuesday, January 25, 2005
Art Unit: 1635
Phone: 272-0758
Serial Number: 10 / 005337

From: Jan Delaval
Location: Biotech-Chem Library
Rem 1a51
Phone: 272-2504
jan.delaval@uspto.gov

Search Notes

THIS PAGE BLANK (USPTO)

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: _____ Examiner #: _____ Date: _____

Art Unit: _____ Phone Number 30 _____ Serial Number: _____

Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher:	<u>Jan</u>	NA Sequence (#) <input checked="" type="checkbox"/>	STN _____
Searcher Phone #:	<u>22504</u>	AA Sequence (#) <input type="checkbox"/>	Dialog _____
Searcher Location:		Structure (#) <input type="checkbox"/>	Questel/Orbit _____
Date Searcher Picked Up:	<u>1/25/05</u>	Bibliographic <input type="checkbox"/>	Dr.Link _____
Date Completed:	<u>1/25/05</u>	Litigation <input type="checkbox"/>	Lexis/Nexis _____
Searcher Prep 1-Review Time:		Fulltext <input type="checkbox"/>	Sequence Systems <input checked="" type="checkbox"/>
Clerical Prep Time:	<u>60</u>	Patent Family <input type="checkbox"/>	WWW/Internet _____
Online Time:	<u>+</u> <u>45</u>	Other <input type="checkbox"/>	Other (specify) _____

THIS PAGE BLANK (uspto)

142006

Delaval, Jan

From: Gibbs, Terra
Sent: Tuesday, January 25, 2005 2:16 PM
To: Delaval, Jan
Subject: RE: 10/005337

The Accession number is AF041847.

-----Original Message-----

From: Delaval, Jan
Sent: Tuesday, January 25, 2005 8:08 AM
To: Gibbs, Terra
Subject: 10/005337

Terra -

I am processing your search request for 10 / 005337.

You have requested a comparison between seq id no 2 and af04184.

I have not been able to locate this accession number in any of our in-house databases; I could not locate this number at NCBI.

Please verify the accession number.

Thanks.

Jan Delaval, 22504

THIS PAGE BLANK (use)

142006

From: Gibbs, Terra
Sent: Tuesday, January 18, 2005 4:42 PM
To: STIC-Biotech/ChemLib
Subject: RE: Sequence comparison

I submitted this request, but put the wrong Accession Number,

I requested a search for SEQ ID NO: 2 of USSN 10/005,337. Accession number **AF04184** came up as a good piece of art.
 However, I need Accession Number **AF04184** to be at least 80% identical to SEQ ID NO:2 of USSN 10/005,337 or as close as possible.
 Can I please have a comparison between these two sequences, with the similarity being at least 80%?
 Thank You.

-----Original Message-----

From: Gibbs, Terra
Sent: Friday, January 07, 2005 4:24 PM
To: STIC-Biotech/ChemLib
Subject: Sequence comparison

I requested a search for SEQ ID NO: 2 of USSN 10/005,337. Accession number AF131884 came up as a good piece of art.
 However, I need Accession Number AF131884 to be at least 80% identical to SEQ ID NO:2 of USSN 10/005,337.
 Can I please have a comparison between these two sequences, with the similarity being at least 80%?
 Thank You.

*Terra Cotta Gibbs, Ph.D.
 Art Unit 1635
 Remsen Building 2D10
 Mailbox 2C18
 571-272-0758*

 STAFF USE ONLY

Searcher: _____
 Searcher Phone: 2- _____
 Date Searcher Picked up: _____
 Date Completed: _____
 Searcher Prep/Rev. Time: _____
 Online Time: _____

 Type of Search

NA Sequence: # _____
 AA Sequence :# _____
 Structure: # _____
 Bibliographic: _____
 Litigation: _____
 Patent Family: _____
 Other: _____

 Vendors and cost where applicable

STN: _____
 DIALOG: _____
 QUESTEL/ORBIT: _____
 LEXIS/NEXIS: _____
 SEQUENCE SYSTEM: _____
 WWW/Internet: _____
 Other(Specify): _____

THIS PAGE IS BLANK (08710)

148004

From: Gibbs, Terra
Sent: Friday, January 07, 2005 4:24 PM
To: STIC-Biotech/ChemLib
Subject: Sequence comparison

I requested a search for SEQ ID NO: 2 of USSN 10/005,337. Accession number AF131884 came up as a good piece of art.
However, I need Accession Number AF131884 to be at least 80% identical to SEQ ID NO:2 of USSN 10/005,337.
Can I please have a comparison between these two sequences, with the similarity being at least 80%?
Thank You.

Terra Cotta Gibbs, Ph.D.
Art Unit 1635
Remsen Building 2D10
Mailbox 2C18
571-272-0758

RECEIVED
JAN - 7 2005
TECH/CHEM LIBRARY
(STIC)

STAFF USE ONLY

Searcher: _____
Searcher Phone: 2-
Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search
NA Sequence: # _____
AA Sequence :# _____
Structure: # _____
Bibliographic: _____
Litigation: _____
Patent Family: _____
Other: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE'SYSTEM: _____
WWW/Internet: _____
Other(Specify): _____

THIS PAGE BLANK (USPTO)

> 0 <
 0 | 0 IntelliGenetics
 > 0 <

FastDB - Fast Pairwise Comparison of Sequences
 Release 5.4

Results file seq2-af041847.res made by jdelaval on Tue 25 Jan 105 14:35:43 -PST.

Query sequence being compared: US-10-005-337A-2 (1-2074)
 Number of sequences searched: 1
 Number of scores above cutoff: 1

Results of the initial comparison of US-10-005-337A-2 (1-2074) with:
 File : af041847.seq

100-
 N -
 U 50-
 M -
 B -
 E -
 R -
 O -
 F 10-
 C -
 S -
 E 5-
 Q -
 U -
 E -
 N -
 C -
 S -
 SCORE 0
 SDDEV 0

> 0 <
 0 | 0 IntelliGenetics
 > 0 <

Sequence Name Description Init. Opt. Length Score Sig. Frame
 1. af041847 TOIG of: af041847 check: 453 1026 62 434 0.00 0

1. US-10-005-337A-2 (1-2074)
 af041847 TOIG of: af041847 check: 4536 from: 1 to: 1026

TOIG of: af041847 check: 4536 from: 1 to: 1026

LOCUS AF041847 1026 bp mRNA linear ROD 21-FEB-1998
 DEFINITION Mus musculus cardiac ankyrin repeat protein MCARP mRNA, complete
 cds.
 ACCESSION AF041847
 VERSION AF041847.1 GI:2905615

KEYWORDS Mus musculus (house mouse)

ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 1026)
 AUTHORS Zou, Y., Evans, S., Chen, J., Kuo, H.C., Harvey, R.P. and Chien, K.R.

TITLE CARP, a cardiac ankyrin repeat protein, is downstream in the Nkx2.5
 homeobox gene pathway

JOURNAL Development 124 (4), 793-804 (1997)

MEDLINE 97195688
 PUBMED 9043061
 REFERENCES 2 (bases 1 to 1026)
 AUTHORS Chen, J. and Chien, K.R.

TITLE Direct Submission
 JOURNAL Submitted (07-JAN-1998) Medicine, UCSD, 9500 Gilman Dr, La Jolla,
 CA 92093, USA

FEATURES Location/Qualifiers
 Source 1..1026
 /organism="Mus musculus"
 /mol_type="mRNA"
 /db_xref="taxon:10090"
 /tissue type="heart"
 15..974
 CDS
 /codon_start=1
 /product="cardiac ankyrin repeat protein MCARP"
 /protein_id="PAC03533.1"
 /db_xref="GI:2905616"
 /translation="MVRVEELVTGKNSNNGAAGFLPGEFRNGYEAAVALKQED
 LKTLPANSYKQGBEOKSKERLKKLEQLNSKLEDELTIIVOLKTKRKYKKT
 KVPUVKEPEBEIMTEPDVPRPELKLPUVEKLDSDKNPSDVKCDEYKRTALRA
 CLEGHAIKEVLKMRGAQIFBRDMLESTAIIHWARGGNADVLKLLNKGAKI SARDKL
 LSTLHVAVRTGHYECABHLIACRADLNAKDRGDPPLIDAVRLNRYKMRIRLLMTFGA
 DLKVYKNCAGKTPMDLVHQSGTKAIFSPKENAYKNSRATF"

ORIGIN AF041847 Length: 1026 January 25, 2005 14:32 Type: N Check: 4536 ..

Initial Score = 62 Optimized Score = 434 Significance = 0.00
 Residue Identity = 48% Matches = 549 Mismatches = 407
 Gaps = 168 Conservative Substitutions = 0

10 20 30 40 50 60 70
 CTGGAGCAAGTTACTTAATGTTTGCCTCAGCATCCCTCTGAAAATGAGGCATTAGTCCTGCTCAA
 80 90 100 110 120 130 140
 CTTGGGGCATGGACACCTCTGGATTCAATGCCAACCTTAAACATCCACAGTCCTCCCTCCCCAAAC
 150 160 170 180 190 200 210
 ACTCTCCCTAAATACCTCCCTGACTTAGATGAAGGACCAATGAAATGAAATGACTCTGTTGCTCAGCAGG
 220 230 240 250 260 270 280
 GTGCCCCGACTACTTCGACTTAGATGAAGGACCAATGAAATGAAATGACTCTGTTGCTCAGCAGG
 290 300 310 320 330 340 350 360

The scores below are sorted by initial score.
 Significance is calculated based on initial score.
 A 100% identical sequence to the query sequence was not found.
 The list of best scores is:


```
>O<
O|< IntelliGenetics
>O<
FastDB - Fast Pairwise Comparison of Sequences
Release 5.4
Results file us-10-005-337a-2-inv.res made by jdelaval on Tue 25 Jan 105 14:36:34-PST.

Query sequence being compared:US-10-005-337A-2' (1-2074)
Number of sequences searched: 1
Number of scores above cutoff: 1

Results of the initial comparison of US-10-005-337A-2' (1-2074) with:
File : af041847.seq
```

Score	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
STDEV	0						*																								

Sequence Name	Description	Length	Opt.	Score	Sig. Frame
1. af041847	TOIG of: af041847	453	1026	28	423
1. US-10-005-337A-2' (1-2074)	TOIG of: af041847	4536	from: 1	to: 1026	
LOCUS AF041847	Mus musculus cardiac ankyrin repeat protein MCARP mRNA, complete cds.	1026 bp	mRNA	linear	ROD 21-FEB-1998
DEFINITION Mus musculus cardiac ankyrin repeat protein MCARP mRNA, complete					
ACCESSION AF041847					
VERSION AF041847.1	GI:2905615				
KEYWORDS	Mus musculus (house mouse)				
ORGANISM	Mus musculus				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butelostomia;				
	Mammalia; Eutheria; Rodentia; Sciurognathia; Muridae; Murinae; Mus.				
REFERENCE 1 (bases 1 to 1026)	Zou, Y., Evans, S., Chen, J., Kuo, H.C., Harvey, R.P. and Chien, K.R.				
AUTHORS					
TITLE	CARP, a cardiac ankyrin repeat protein, is downstream in the Nkx2-5 homeobox gene pathway				
JOURNAL	Development 124 (4), 793-804 (1997)				
MEDLINE	97195688				
PUBMED	9043061				
REFERENCE 2 (bases 1 to 1026)	Chen, J. and Chien, K.R.				
AUTHORS					
TITLE	Direct Submission				
JOURNAL	Submitted (07-JAN-1998) Medicine, UCSD, CA 92093, USA				
FEATURES	Location/Qualifiers				
source	1..1026				
	/organism="Mus musculus"				
	/mol_type="mRNA"				
	/db_xref="taxon:10090"				
	/tissue_type="heart"				
	15..974				
	/codon_start=1				
	/product="cardiac ankyrin repeat protein MCARP"				
	/protein_id="AAC03533.1"				
	/db_xref="GI:2905616"				
	/translation="MVMVLEVEELYTGKKNNGAAACEFLPGEFRNGYEAAVALEKQD				
	LKTLPANSVQGEFORKSEKLREAFKKKLEQSKLENEDLEIIVOLKRRKKYKT				
	KPVVKPEPEIMTEPVDPVDFRVLPSDKNSPDCDEYKTAUHLRA				
	CLEGHATEVKLMEAGAQIFDRMLESTAHLWAGRNDAVYLSPKLNKGAKISANDKL				
	LSTLAHVAVRTGHYKECAEHLIAECADLNAKDREGDPLDAVRLNRYKMRILLMTFGA				
	DLKVNCAGKTPMDLVLAHQSGTKAIFDSPKENAYKNSRIATF"				
ORIGIN					
AF041847	Length: 1026	January 25, 2005 14:32	Type: N	Check: 4536	..
Initial Score = 28	Optimized Score = 423	Significance = 0.00			
Residue Identity = 46%	Matches = 513	Mismatches = 453			
Gaps = 135	Conservative Substitutions = 0				
PARAMETERS					
Similarity matrix Unitary	K-tuple 4				
Mismatch penalty 1	Joining Penalty 30				
Gap Penalty 1.00	Window size 32				
Gap size penalty 0.33					
Cutoff score 0					
Randomization group 0					
SEARCH STATISTICS					
Scores:	Mean 28	Median 0	Standard Deviation 0.00		
Times:	CPU 00:00:00.00	Total Blasped 00:00:00.00			
Number of residues: 1026					
Number of sequences searched: 1					
Number of scores above cutoff: 1					

The scores below are sorted by initial score.
 Significance is calculated based on initial score.
 A 100% identical sequence to the query sequence was not found.
 The list of best scores is:

ACCACATCACTGCCCTTTTGTAGCTTCAATGACTACCTATCAGAAATTGTACATGCCCTAC
 370 380 390 400 410 420 430
 440 450 460 470 480 490 500
 ATATCACCCCCAGTAATATCCTTCGATAAGAGACTTATCAACACTTCACTTAGGGAAAACCTTCCC
 510 520 530 540 550 560 570
 GGACATCCATTCCCTGGTAAACRGCTGAGGGAAAGGGATCTGGGCCATAAGGGACTTGCCTATATCTG
 580 590 600 610 620 630 640
 TTGGAATTCCTTGAGGTGATGTCGGTAAATAGGCCCATGACATGCCACCTAACATCATTATAAGAC
 650 660 670 680 690 700 710
 ATTGAAAGCATTCACTAATGCACTTTCTTATGATGCACTACGCTTACATGCCCTACCGTG
 730 740 750 760 770 780 790
 TTCTAACAGCATAATATTGGAGCAATTCTCAAAATGGATCAGAGTGTCAAGAAATTAGACTTAAT
 800 810 820 830 840 850 860
 GAAACCAAGCTATGCCGGTGCAGTGGCTAACCTGTAATCCCAAATTTGGAGGCAAGACAGGAAG
 870 880 890 900 910 X 920 930
 ATGCTTACGCTTAGGAGTCATACTAGCTGGCAAATGGCAAAATGCCATCT-CTACCACAA- -ATACT
 30 40 50 60 70 80
 X 10 20
 -ATA-TATATGAAAAAATGAGGCCAGATATTGCAATGGCAAGACTCTGATAGGTCAATTGAGCTG
 940 950 960 970 980 990 1000
 GAGAGTACAGGAGCTG-GTAACGCCAA- -AAGAACACCAATGGCAAGGAAATCTCTCCCTGGG
 90
 1010 1020 1030 1040 1050 1060 1070
 AAGTTCTAAATGCTGGAAAGGAAATCACCTGTGTCGAAATAACAGB-TCCCTGGCCAC
 30
 GAGTTCAATGCTGGAAAGGAAATCACCTGTGTCGAAATAACAGB-TCCCTGGCCAC
 40
 TCCGGGCCA-ACAGCG- 110 120 130 140 150
 1080 1090 1100 1110 1120 1130 1140
 TCCGGGAAATTCTGAGTATTGGAA- -CTCGTGAATCATCTGAAATTMAAGACCCAGA--TG
 160 170 180 190 200 210 220
 AAAAGGAAAAAAACTGAAACAACAAAGTCAAAAGCTGAAACAGGAAAGGCAAGGCGAG-AGGCAGAGCTC
 230 240 250 260 270 280 290
 1150 1160 1170 1180 1190 1200
 ATTCTGAGTCATCAGATTGAGACCTGTCGGTGGGATA-ATGCTCTT- -TGTTTCCGAAAGGGTGT
 300
 AAAAGGAAAAAAACTGAAACAACAAAGTCAAAAGCTGAAACAGGAAAGCCTGAAATAATTGTCACACTGAAG
 230
 1280 1290 1300 1310 1320 1330 1350
 AAAGGCTCTATTCTGTTTCTAATCTTGGTGAATTATGTA-AACATACTGGGTATTTTTATA
 370
 GGGAAAGTGTAAATTAGGAGGTATGTTGACCTTGTGAGGAGAGAAGGAAATTGTGAAATGGA
 1360 1370 1380 1390 1400 1410 1420
 ACCTGTCGCTGTCGAG-GTTCTGAAAGCTGCGTGGTGAAGGAGCCGAACACTGCGATGTTG---CTGAAATTATGACT-GA
 370 380 390 400 410 420 430
 1440 1450 1460 1470 1480
 AAATGTTGGCTGCCATTCTCCTCTGCC- -CCTGAAATGCTCACTGAACTGTTCTGA---AACTT
 430 440 450 460 470 480
 CGGCCCGACAGAA- -CGCCCGACAGGCTGCGATGACT-----AAACGGTGGCAGCTCCAC

THIS PAGE BLANK (USPTO)